

What is Claimed is:

1. An electrical cable comprising:

an outer jacket;

a plurality of conductors within the outer jacket; and,

5 a filler having a core within the outer jacket, the core having a dielectric

enhancing section extending therethrough and a plurality of voids substantially surrounding the dielectric enhancing section.

2. The electrical cable of claim 1 wherein the dielectric enhancing section is formed as a hollow tubular structure.

10 3. The electrical cable of claim 2 further comprising an outer skin surrounding the core.

4. The electrical cable of claim 2 wherein the core is extruded with a foaming agent to create the voids.

15 5. The electrical cable of claim 4 wherein the core is selected from the group of materials consisting of polyethylene, polypropylene, fluoropolymers, and neoprene.

6. The electrical cable of claim 1 wherein the dielectric enhancing section is formed of a thread.

7. The electrical cable of claim 1 wherein the dielectric enhancing section is formed as a hollow structure.

20 8. The electrical cable of claim 7 wherein the core is cross shaped in cross section.

9. A filler for use in an electrical cable comprising:

a core formed of a foamed material substantially surrounding a dielectric enhancing section; and,

an outer skin formed of an insulative material surrounding the core.

10. The filler of claim 9 wherein the dielectric enhancing section is formed as a hollow structure.

11. The filler of claim 9 wherein the foamed material is selected from the group of
5 polyethylene, polypropylene, fluoropolymers, and neoprene.

12. The filler of claim 10 wherein the core is formed in the shape of a cross.

13. The filler of claim 9 wherein the dielectric enhancing section is formed of a thread.